DECLARATION AND POWER OF ATTORNEY FOR UNITED STATES PATENT APPLICATION

⊠Original	. 🗖	Supplemental			Substitute
As a below named	inventor, I hereby de	eclare that:			
My residence, post	office address and	citizenship are as stat	ed below next to	my n	ame, and
and ioint inventor (i	f more than one nar	e inventor (if only one is listed below) of to the invention entitle	he subject matte	belov r whi	v) or an original, first ch is claimed and for
PATHOGENIC B	OVINE ENTERO	VIRUS, VACCINES,	AND DIAGNO	STIC	METHODS
the specification of	which:				
☐ is attached	hereto.				1
was filed or	(day/mor	as Applicat	ion No.		
and, if this l	oox (□) contains an	×			
□ was	s amended on (da	y/month/year)			
		Treaty international			
PCT/EP200	14/014117	on 10/12/200/ (day/month/ye			* •
and, if this t	oox (□) contains an	×			•
□ ent	ered the national sta	ge in the United State	es and was acco	rded	Application No.
and, if this t	oox (□) contains an	×			*
•		uent to entry into the r	national stage, or	n.	(day/month/year)

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment(s) specifically referred to above and, if this application was filed as a Patent Cooperation Treaty international application, by any amendments made during the international stage (including any made under Patent Cooperation Treaty Rule 91, Article 19 and Article 34).

I acknowledge my duty to disclose information which is material to patentability as defined in 37 C.F.R. 1.56, including, for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or Patent Cooperation Treaty international filing date of the continuation-in-part application.

I hereby claim the benefit under 35 U.S.C. 119(a)-(d) or (f) or 365(b) of any foreign application(s) for patent, inventor's certificate or plant breeder's right certificate listed below and under 35 U.S.C. 365(a) of any Patent Cooperation Treaty international application(s) designating at least one country other than the United States listed below and have also listed below any foreign application(s) for patent, inventor's certificate or plant breeder's right certificate and Patent Cooperation Treaty international application(s) designating at least one country other than the United States for the same subject matter and having a filing date before that of the application the priority of which is claimed for that subject matter:

COUNTRY/REGION APPLICATION No. (OR P.C.T.)		FILING DATE (day/month/year)	PRIORITY	CLAIMED				
	_: ··- 		□ Yes	□ No				
			□ Yes	□ No				
•	•		☐ Yes	□ No				
	•		□ Yes	□ No				
		· .*	□ Yes	□ No				
I hereby claim the benefit under 35 U.S.C. 119(e) of any United States provisional application(s) listed below:								
APPLICATION NO.		FILING DATE (day/month/year)						
60/529349		12/12/2003	·					

I hereby claim the benefit under 35 U.S.C. 120 of any United States application(s) listed below and under 35 U.S.C. 365(c) of any Patent Cooperation Treaty international application(s) designating the United States listed below:

United States	United States	Status (Pending,	International	
Application No.	Filing Date	Abandoned or U.S.	Application No.	and Filing Date
	(day/month/year)	Patent No.)		(day/month/year)

I hereby appoint all of the registered practitioners associated with Customer No. 001095, respectively and individually, as my attorneys and agents, with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith.

If this box (\square) contains an x \boxtimes , I hereby authorize the registered practitioners associated with Customer No. 001095 and any others acting on my behalf to take any action relating to this application based on communications from Corporate Intellectual Property of Novartis International AG, Basle, Switzerland, or an affiliate thereof or a successor thereto, without direct communication from me.

Please send all correspondence relating to this application to the address associated with Customer No. 001095.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Full name of sole or first joint inventor	Gary A. ANDERSON		*
of morjoint internal			
Inventor's signature		Date	21/6/06
inventor a digitalia.		- -	(day/month/year)
Residence	Paolo, KS 66071, USA	:	
Citizenship	citizen of United States Of America		
Post Office Address	15192 W. 311th Street Paolo, KS 66071	4	
	USA		
Full name of second joint inventor, if any	Daniel J. KEIL		
Inventor's signature	•	Date	
			(day/month/year)
Residence	Spring Hill, KS 66083, USA		
Citizenship	citizen of United States Of America		
Post Office Address	30837 West 231st Street Spring Hill, KS 66083 USA		

IMPORTANT: Before this declaration is signed, the patent application (the specification, the claims and this declaration) must be read and understood by each person signing it, and no changes may be made in the application after this declaration has been signed.

Full name of third joint inventor, if any

Robert J. FLAKUS

Inventor's signature

Date

(day/month/year)

Residence

Sioux Falls, SD 57110, USA

Citizenship

Citizen of United States Of America

Post Office Address

4605 East 26th Street, # 302

Sioux Falls, SD 57110

USA

US Case 33555-US-PCT

DEC	LARATION AND POWER C	F ATTO	RNEY FOR UNITED	STATES PATE	NT	APPLICATION
⊠Or	iginal	□ s	upplemental	÷		Substitute
As a	below named inventor, I her	eby decla	are that:			·
Му ге	esidence, post office address	and citiz	zenship are as stated	below next to	my i	name, and
and id	eve I am the original, first a oint inventor (if more than or n a United States patent is so	ne name	is listed below) of the	name is listed b subject matter	elo wh	w) or an original, first ich is claimed and for
PATI	HOGENIC BOVINE ENTI	EROVIR	US, VACCINES, A	ND DIAGNO	STI	C METHODS
the sp	pecification of which:					÷
	is attached hereto.					
	was filed on (da	y/month/y	as Application	n No		
	and, if this box () contain	ns an 🗴				
	□ was amended on	(day/m	nonth/year)			· .
X	was filed as Patent Coope	ration Tr	eaty international Ap	plication No.		
	PCT/EP2004/014117	on	10/12/2004 (day/month/year)			
	and, if this box (□) contain	is an 🗶				
	entered the nation	al stage	in the United States	and was accor	ded	Application No.
	and, if this box (□) contain	e an ¥	_			
			to entry into the nati	onal stage, on		· .
•						(day/month/year)

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment(s) specifically referred to above and, if this application was filed as a Patent Cooperation Treaty international application, by any amendments made during the international stage (including any made under Patent Cooperation Treaty Rule 91, Article 19 and Article 34).

I acknowledge my duty to disclose information which is material to patentability as defined in 37 C.F.R. 1.56, including, for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or Patent Cooperation Treaty international filing date of the continuation-in-part application.

I hereby claim the benefit under 35 U.S.C. 119(a)-(d) or (f) or 365(b) of any foreign application(s) for patent, inventor's certificate or plant breeder's right certificate listed below and under 35 U.S.C. 365(a) of any Patent Cooperation Treaty international application(s) designating at least one country other than the United States listed below and have also listed below any foreign application(s) for patent, inventor's certificate or plant breeder's right certificate and Patent Cooperation Treaty international application(s) designating at least one country other than the United States for the same subject matter and having a filing date before that of the application the priority of which is claimed for that subject matter:

COUNTRY/REGION (OR P.C.T.)	APPLICATION No.	FILING DATE (day/month/year)	Р	RIORITY	/ CLA	IMED		
		()		Yes		No.		
	-			Yes		No		
•		·		Yes		No		
				Yes		No		
•				Yes		No		
I hereby claim the benefit under 35 U.S.C. 119(e) of any United States provisional application(s) listed below:								
APPLICATION NO.		FILING DATE (day/month/year)						
60/529349	•	12/12/2003		•				

I hereby claim the benefit under 35 U.S.C. 120 of any United States application(s) listed below and under 35 U.S.C. 365(c) of any Patent Cooperation Treaty international application(s) designating the United States listed below:

		D (D)	Intorno	tional
United States	United States	Status (Pending,	Interna	
Application No.	Filing Date	Abandoned or U.S.	Application No.	and Filing Date
Application No.	(day/month/year)	Patent No.)		(day/month/year)
1	(day/indiningcar/	1 816111 140.		1000,1111011111111111111111111111111111

I hereby appoint all of the registered practitioners associated with Customer No. 001095, respectively and individually, as my attorneys and agents, with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith.

If this box (□) contains an x ☒, I hereby authorize the registered practitioners associated with Customer No. 001095 and any others acting on my behalf to take any action relating to this application based on communications from Corporate Intellectual Property of Novartis International AG, Basle, Switzerland, or an affiliate thereof or a successor thereto, without direct communication from me.

Please send all correspondence relating to this application to the address associated with Customer No. 001095.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Full name of sole or first joint inventor	Gary A. ANDERSON		
		Date	
Inventor's signature		— Date	(day/month/year)
Residence	Paolo, KS 66071, USA		
Citizenship	citizen of United States Of America		
Post Office Address	15192 W. 311th Street Paolo, KS 66071		-
	USA		er:
	Daniel J. KEIL		<u> </u>
Full name of second joint inventor, if any	Damer J. KEIL	•	
· :	1		
Inventor's signature	Mal	Date	17/5/2006
	, , ,		(day/month/year)
Residence	Spring Hill, KS 66083, USA		
Citizenship	citizen of United States Of America		
Post Office Address	30837 West 231st Street Spring Hill, KS 66083 USA		

IMPORTANT: Before this declaration is signed, the patent application (the specification, the claims and this declaration) must be read and understood by each person signing it, and no changes may be made in the application after this declaration has been signed.

Full name of third joint inventor, if any	Robert J. FLAKUS		
Inventor's signature		Date -	(day/month/year)
Residence	Sioux Falls, SD 57110, USA	· .	
Citizenship Post Office Address	citizen of United States Of America 4605 East 26th Street, # 302 Sioux Falls, SD 57110 USA		

DECLARATION AND POWER OF ATTORNEY FOR UNITED STATES PATENT APPLICATION

図Orig	inal		Supplemental		Substitute
As a be	elow named inventor, I here	by de	eclare that:		
		•	sitizenship are as stated below next to	my r	name, and
believ and ioi	re I am the original, first an	d sol	e inventor (if only one name is listed ne is listed below) of the subject matte	belov	w) or an original, first
PATH	OGENIC BOVINE ENTE	ROV	IRUS, VACCINES, AND DIAGNO	STI	C METHODS
the spe	ecification of which:				
0	is attached hereto.				
	was filed on (da	y/mon	as Application No		
	and, if this box (□) contain	ns an	×		
	was amended on	(da	y/month/year)		
X	was filed as Patent Coope	ration	Treaty international Application No.		
-	PCT/EP2004/014117		on <u>10/12/2004</u> (day/month/year)		
	and, if this box (□) contain	ns an	×		
	☐ entered the nation	al sta	ge in the United States and was acco	rded	Application No.
	and, if this box (□) contain	ns an	×		
	□ was amended, sub-	osequ	ent to entry into the national stage, or	٦ .	(day/month/year)

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment(s) specifically referred to above and, if this application was filed as a Patent Cooperation Treaty international application, by any amendments made during the international stage (including any made under Patent Cooperation Treaty Rule 91, Article 19 and Article 34).

I acknowledge my duty to disclose information which is material to patentability as defined in 37 C.F.R. 1.56, including, for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or Patent Cooperation Treaty international filing date of the continuation-in-part application.

I hereby claim the benefit under 35 U.S.C. 119(a)-(d) or (f) or 365(b) of any foreign application(s) for patent, inventor's certificate or plant breeder's right certificate listed below and under 35 U.S.C. 365(a) of any Patent Cooperation Treaty international application(s) designating at least one country other than the United States listed below and have also listed below any foreign application(s) for patent, inventor's certificate or plant breeder's right certificate and Patent Cooperation Treaty international application(s) designating at least one country other than the United States for the same subject matter and having a filing date before that of the application the priority of which is claimed for that subject matter:

COUNTRY/REGION (OR P.C.T.)	APPLICATION No.	FILING DATE (day/month/year)	PRIORIT	Y CLAIMED				
		•	☐ Yes	□ No				
•		÷	☐ Yes	□ No				
			☐ Yes	□ No				
			☐ Yes	□ No				
			☐ Yes	□ No				
I hereby claim the benefit under 35 U.S.C. 119(e) of any United States provisional application(s) listed below:								
APPLICATION NO.		FILING DATE (day/month/year)						
60/529349		12/12/2003						

I hereby claim the benefit under 35 U.S.C. 120 of any United States application(s) listed below and under 35 U.S.C. 365(c) of any Patent Cooperation Treaty international application(s) designating the United States listed below:

United States	United States	Status (Pending,	International		
Application No.	Filing Date	Abandoned or U.S.	Application No.	and Filing Date	
	(day/month/year)	Patent No.)		(day/month/year)	

I hereby appoint all of the registered practitioners associated with Customer No. 001095, respectively and individually, as my attorneys and agents, with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith.

If this box (\square) contains an x \boxtimes , I hereby authorize the registered practitioners associated with Customer No. 001095 and any others acting on my behalf to take any action relating to this application based on communications from Corporate Intellectual Property of Novartis International AG, Basle, Switzerland, or an affiliate thereof or a successor thereto, without direct communication from me.

Please send all correspondence relating to this application to the address associated with Customer No. 001095.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Full name of sole or first joint inventor	Gary A. ANDERSON		
Inventor's signature		Date .	(day/month/year)
Residence	Paolo, KS 66071, USA		
Citizenship	citizen of United States Of America		
Post Office Address	15192 W. 311th Street Paolo, KS 66071 USA		
Full name of second joint inventor, if any	Daniei J. KEIL		
Inventor's signature		Date .	(day/month/year)
Residence	Spring Hill, KS 66083, USA		
Citizenship	citizen of United States Of America		
Post Office Address	30837 West 231st Street Spring Hill, KS 66083 USA		

IMPORTANT: Before this declaration is signed, the patent application (the specification, the claims and this declaration) must be read and understood by each person signing it, and no changes may be made in the application after this declaration has been signed.

Full name of third joint inventor, if any

Robert J. FLAKUS

Inventor's signature

() '

Residence

Sioux Falls, SD 57110, USA

Citizenship

citizen of United States Of America

Post Office Address

4605 East 26th Street, # 302 Sloux Falls, SD 57110

USA